

SM22 Supervisory Module

The SM22 microcontroller based supervisory module provides the control and monitoring functions for the Enatel RM series rectifiers.

The SM22 monitors all power system conditions including DC voltage, rectifier current, battery current, battery temperature, and distribution failure. Visual notification of alarm conditions are given by LED's and a 2 line x 20 character alpha numeric display mounted on the front of the SM22, with remote notification being enabled by relay contacts, RS232 or TCP/IP (using SNMP). It has a built in web based configurator allowing setup of system parameters using a web browser.

The SM22 utilises a USB communications port which allows for local monitoring of system operations as well as easy downloading of configuration files for multiple site installations.

- Serial control for up to 64 rectifiers or peripheral devices.
- Multiple language options.
- Temperature compensation.
- Battery current limiting.
- Dual LVD Control.
- Setup from front panel or PC.
- Fast charge control and timer.
- LCD display of parameters.
- Web based configuration.
- SNMP for remote monitoring.
- USB port for local connection.





Specifications

Input	
Voltage:	
24V:	16-60V DC
48V:	19-75V DC
Current:	
24V:	<160ma maximum
48V:	<130ma maximum
Interface	
Display:	2 line x 20 character multi-lingual alpha numeric display.
Communications:	
Serial:	1x USB port on front panel for local PC interface. 1x RS232 port, rear mounted (DB9) for remote serial/modem communications.
Relay:	10x alarm and control relays. 9x relays able to be mapped for customised alarm settings.
TCP/IP:	Ethernet interface for communication using SNMP protocol and internal web based configurator.
Indicators:	
3x LED's	Green - power on/monitor OK. Yellow - non urgent alarm. Red - urgent alarm.
Audible:	90dBA buzzer mappable to user defined conditions.
Controls:	3x push buttons for parameter setting on front panel.
Signal Inputs:	
	Serial bus for rectifier control and interface to peripheral modules. Fuse fail. 2x spare digital inputs. 2x temperature sensors. 2x current shunts. 1x DC voltage inputs.
Alarms	
Alarm Contacts:	0.3A 100V Volts free changeover contacts.
Default Alarm Map:	
	Urgent. Non-urgent. Rectifier fail. Mains fail. Float high. Float low. LVD1 control. LVD2 control.
Physical	
Dimensions W, H, D:	483mm (19" rack mount), 44mm (1U), 110mm
Weight:	0.75kg
Connections:	
	Relay outputs, mini combicon to accept 1.5mm csa wire. Serial communications to rectifier shelf & peripheral devices - RJ45. TCP/IP interface - RJ45, RS232 Serial port - DB9, USB port - USB B receptacle.
Operating Temperature:	-25 to +55°C
Storage Temperature:	-50 to +85°C
Compliances	
Radiated Emissions:	EN55022
RF Susceptability:	EN55024
Accessories	
Temperature Sensor:	
ACA-TC2U:	2 metre temp sensor and cable.
ACA-TC7U:	7 metre temp sensor and cable.
ASM-AC3P:	3 phase AC voltage and current monitor.
ASM-ABM-24:	Battery monitor interface modules, 24 blocks.
Versions	
SM22-24:	24V
SM22-48:	48V